

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P269351

Luminaire Tested: **GLEON-AF-05-LED-E1-T3R-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-T3R-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21352.1 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

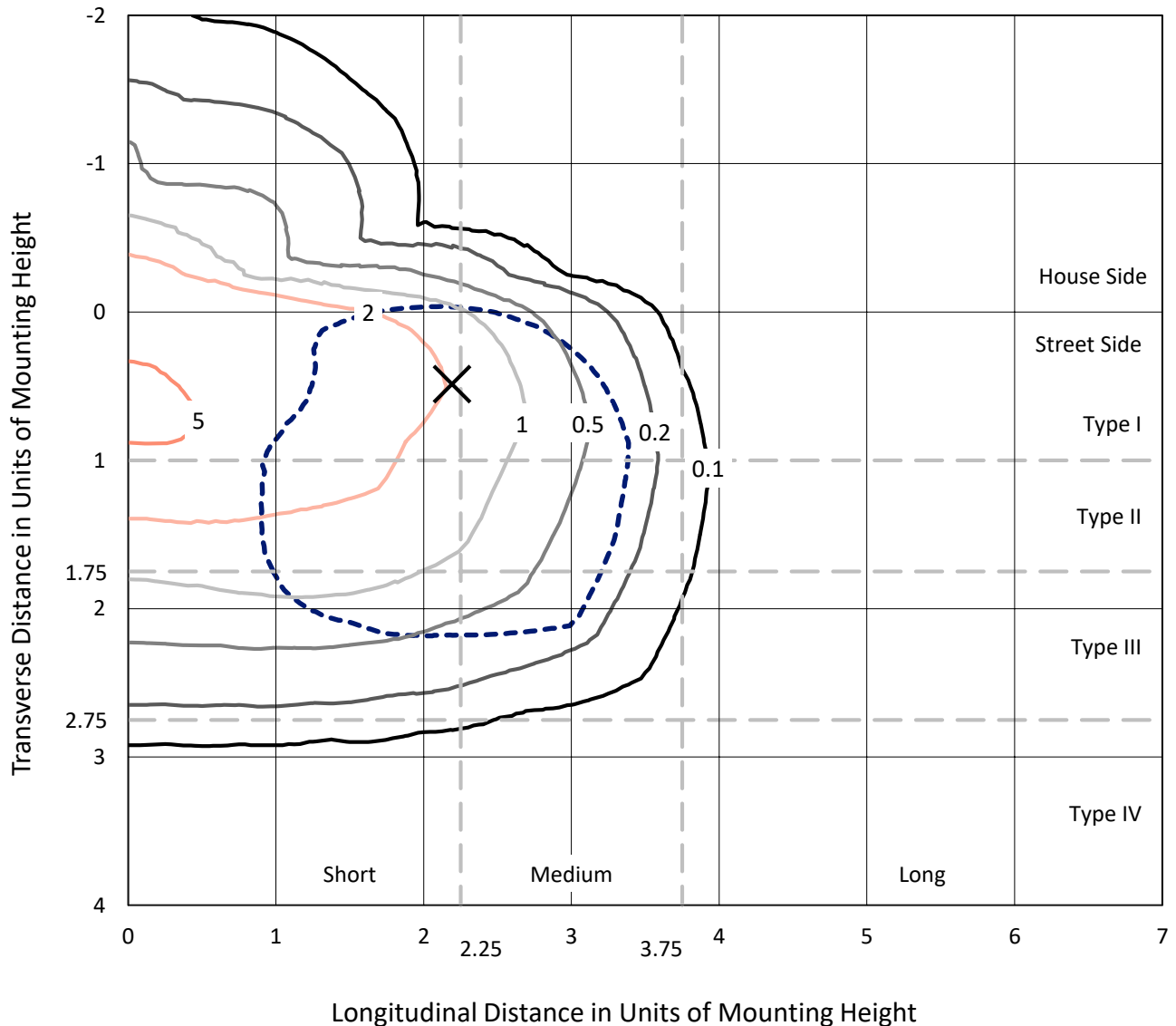


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

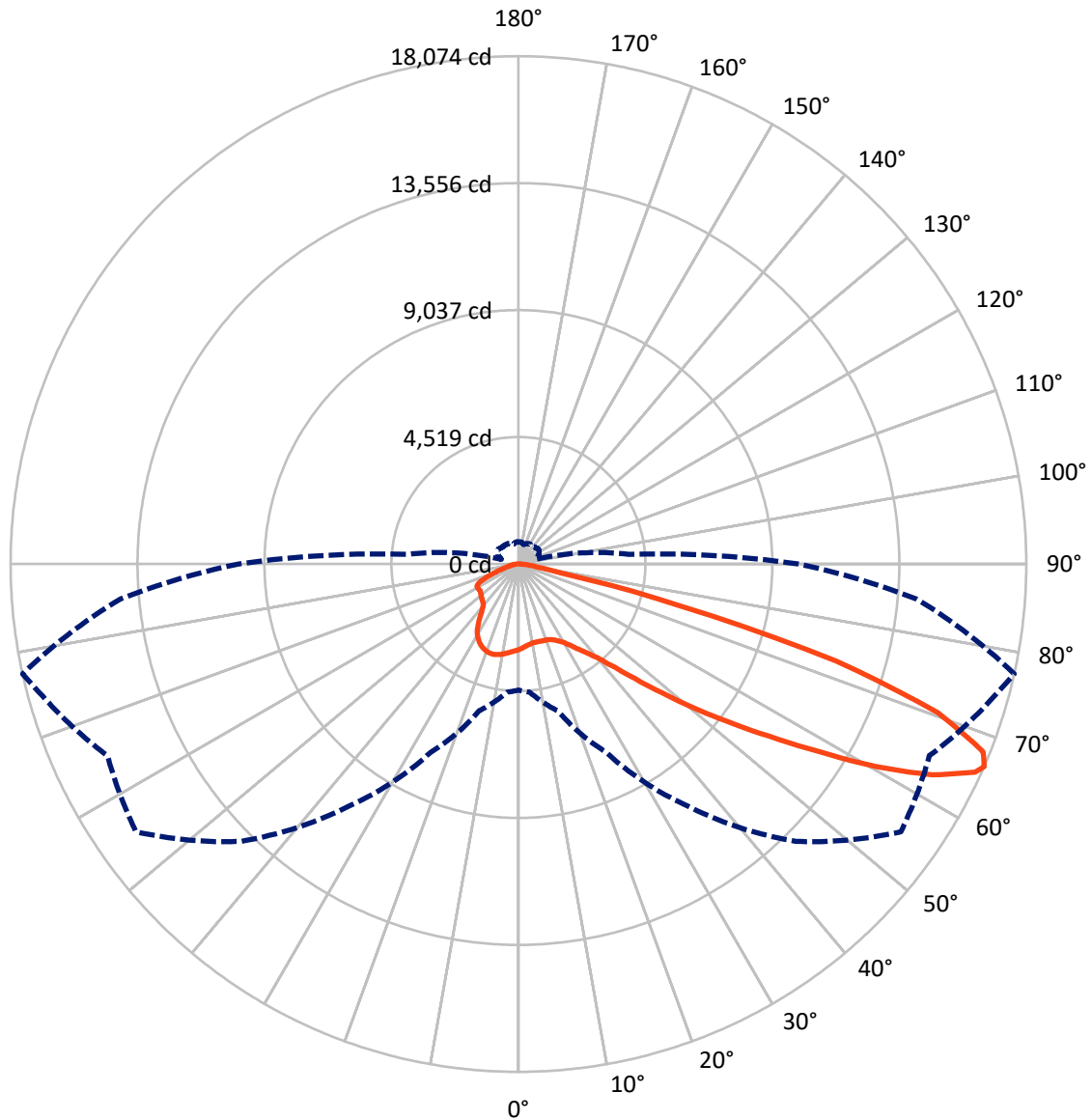


Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3647.9	0.0	3647.9
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	17704.2	0.0	17704.2
	% Fixture	82.9	0.0	82.9
Total	Lumens	21352.1	0.0	21352.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.8	1.3
10°-20°	766.9	3.6
20°-30°	1308.9	6.1
30°-40°	2095.3	9.8
40°-50°	3237.0	15.2
50°-60°	4591.2	21.5
60°-70°	6141.8	28.8
70°-80°	2667.3	12.5
80°-90°	272.0	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	21352.1	100.0
0°-180°	21352.1	100.0



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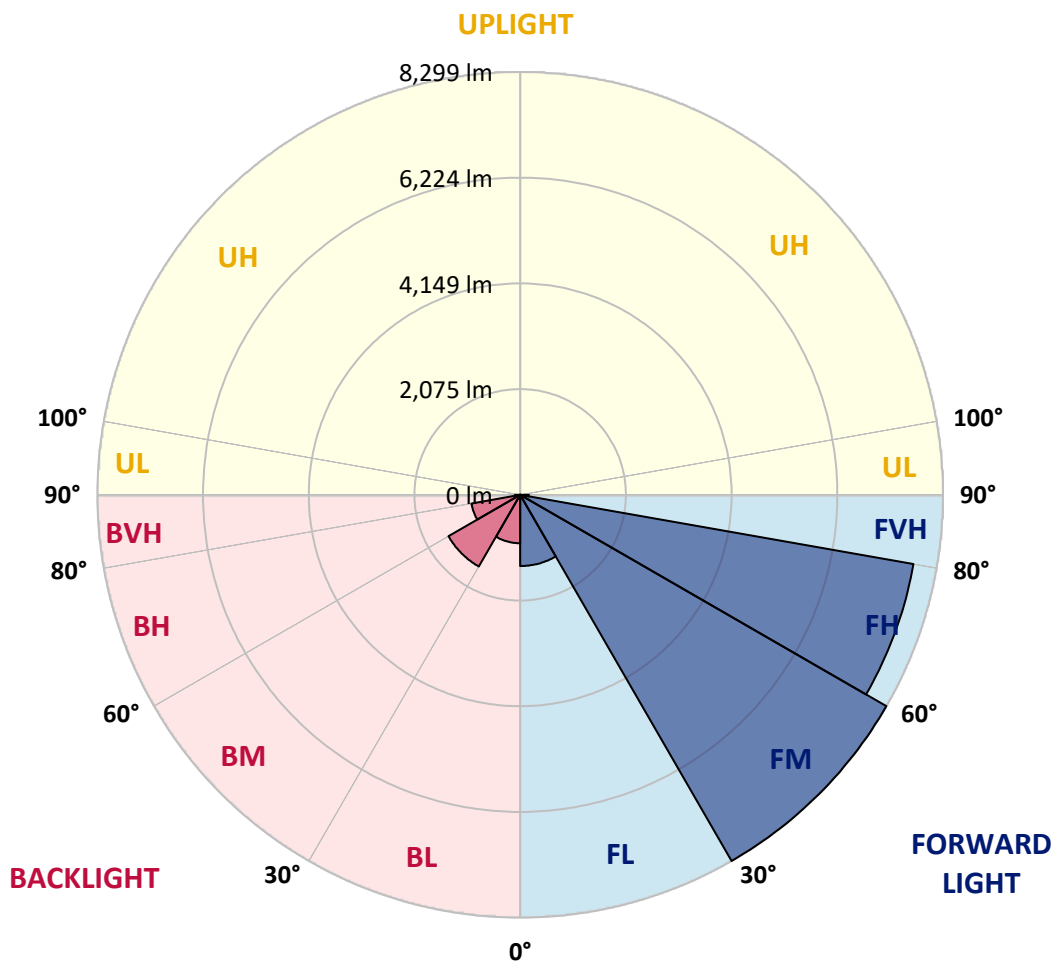
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1397.6	6.5			
FM	(30°-60°)	8298.5	38.9			
FH	(60°-80°)	7837.5	36.7			G4/12000
FVH	(80°-90°)	170.6	0.8			G2/225
BL	(0°-30°)	950.1	4.4	B2/1000		
BM	(30°-60°)	1624.9	7.6	B2/2500		
BH	(60°-80°)	971.5	4.5	B2/1000		G2/1000
BVH	(80°-90°)	101.4	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	3042.7	3042.7	3042.7	3042.7	3042.7	3042.7	3042.7	3042.7	3042.7	3042.7	3042.7
2.5°	2691.7	2709.8	2725.0	2739.1	2767.4	2813.9	2867.2	2910.6	2973.2	2985.2	3018.6
5°	2444.5	2444.5	2456.7	2477.9	2516.2	2585.7	2658.4	2755.2	2891.5	2923.8	3012.6
7.5°	2324.5	2325.4	2332.4	2350.7	2384.0	2447.5	2527.2	2641.2	2825.9	2879.3	3030.7
10°	2368.8	2358.8	2343.6	2334.5	2339.5	2376.9	2452.6	2579.8	2785.6	2854.2	3071.0
12.5°	2617.0	2597.9	2545.3	2475.8	2409.3	2381.9	2426.3	2550.5	2768.3	2848.0	3124.6
15°	3022.5	3014.5	2916.6	2772.3	2611.0	2475.8	2445.5	2539.4	2770.5	2855.2	3188.1
17.5°	3531.1	3520.0	3390.8	3181.0	2917.7	2654.3	2513.1	2548.4	2777.4	2867.2	3249.6
20°	4044.6	4010.4	3871.1	3620.9	3282.9	2897.6	2625.0	2571.7	2786.5	2880.3	3314.1
22.5°	4427.9	4399.7	4274.7	4031.5	3642.1	3179.0	2775.5	2612.0	2815.7	2918.8	3393.8
25°	4764.9	4766.9	4642.9	4407.9	4005.3	3477.6	2969.2	2720.0	2890.4	2997.4	3502.9
27.5°	5181.7	5157.3	5041.4	4808.3	4364.4	3779.3	3203.1	2868.3	3001.3	3109.4	3646.1
30°	5680.1	5662.8	5528.7	5264.3	4763.0	4103.1	3470.5	3040.8	3144.6	3256.6	3833.7
32.5°	6266.1	6258.1	6118.9	5778.8	5222.9	4484.5	3784.3	3268.8	3358.6	3474.6	4103.1
35°	6954.1	6955.1	6790.7	6382.2	5726.3	4928.5	4140.5	3562.4	3618.8	3740.0	4424.0
37.5°	7377.9	7429.4	7367.9	6951.2	6296.4	5424.8	4602.5	3951.7	3915.4	4037.5	4767.9
40°	7468.8	7531.3	7726.1	7514.1	6934.0	5971.6	5012.2	4326.1	4280.7	4430.0	5210.9
42.5°	7341.6	7428.4	7840.0	7989.3	7611.0	6645.5	5562.9	4882.0	4824.4	5025.2	5761.6
45°	7265.9	7330.4	7806.7	8236.5	8198.1	7407.2	6264.2	5580.1	5558.9	5822.3	6397.3
47.5°	7134.8	7193.3	7651.4	8294.1	8543.2	8105.3	7106.5	6433.7	6475.1	6820.0	7114.7
50°	7205.5	7229.6	7477.9	8147.6	8643.0	8616.8	8047.8	7422.3	7563.5	7994.3	7926.7
52.5°	7195.3	7257.9	7457.5	7907.6	8656.2	8932.7	8975.0	8525.0	8822.7	9317.0	8827.7
55°	5817.2	5932.1	7220.5	7847.1	8702.6	9242.3	9800.2	9687.2	10242.1	10818.2	9844.6
57.5°	5554.8	5627.5	6341.9	7974.2	8948.7	9833.6	10718.3	10966.5	11894.6	12563.5	11083.6
60°	5503.5	5593.2	6332.7	8129.5	9448.2	10797.0	12079.2	12515.1	13905.4	14637.8	12520.1
62.5°	5342.9	5439.9	6273.3	8109.4	10157.3	12129.8	13821.6	14161.6	15812.1	16524.4	13721.8
65°	4834.6	4925.3	5787.9	7783.5	10635.7	13552.3	15883.8	15670.9	17317.4	17853.2	14321.0
66°	4486.4	4575.2	5405.6	7400.1	10524.6	13955.8	16614.2	16138.1	17654.4	18074.1	14204.0
67.5°	3849.9	3919.5	4663.0	6541.5	9934.4	14068.9	17228.7	16489.1	17689.8	17838.1	13535.1
70°	2432.4	2452.6	3030.7	4515.7	7520.3	12201.4	16293.4	15617.5	16230.8	15829.4	11346.9
72.5°	1055.2	1048.2	1454.8	2297.2	4257.4	8187.1	13180.0	12886.5	12732.0	11815.9	7943.0
75°	587.1	595.2	755.7	1066.4	1730.2	4021.4	8621.9	8250.7	6966.4	5944.4	3601.8
77.5°	471.2	482.2	626.5	756.6	776.9	1402.3	4034.5	3282.9	1976.5	1586.0	1000.8
80°	372.3	392.5	546.8	589.2	523.6	578.1	1303.5	1042.2	781.9	717.2	518.5
82.5°	294.6	308.7	469.2	445.9	366.1	389.4	624.5	608.3	508.5	463.0	299.7
85°	211.9	238.1	385.5	336.0	240.0	262.3	414.7	397.5	291.6	238.1	132.2
87.5°	86.7	112.9	272.4	223.0	134.1	122.1	206.8	194.8	138.2	100.9	65.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3042.7	3042.7	3042.7	3042.7	3042.7	3042.7	3042.7	3042.7	3042.7	3042.7	3042.7
2.5°	3039.8	3063.9	3095.2	3114.5	3124.6	3131.5	3142.7	3141.6	3144.6	3145.7	3149.6
5°	3059.9	3100.3	3145.7	3157.8	3157.8	3146.8	3135.7	3117.5	3110.4	3108.3	3110.4
7.5°	3112.4	3156.7	3196.1	3181.9	3151.8	3107.3	3049.8	2999.4	2972.1	2963.1	2961.1
10°	3179.0	3232.5	3248.6	3195.1	3106.2	2999.4	2885.4	2802.6	2755.2	2742.2	2738.2
12.5°	3259.7	3310.2	3287.9	3174.9	3010.5	2837.9	2680.6	2548.4	2449.6	2418.2	2416.4
15°	3348.4	3387.8	3310.2	3112.4	2867.2	2613.0	2332.4	2104.5	1981.4	1942.0	1939.1
17.5°	3431.2	3451.4	3297.0	3003.5	2656.4	2244.8	1872.4	1697.0	1654.6	1664.6	1666.6
20°	3501.9	3501.9	3252.7	2847.1	2324.5	1759.5	1524.5	1521.4	1551.6	1581.9	1587.9
22.5°	3579.4	3533.2	3174.9	2626.1	1854.3	1439.7	1405.4	1433.7	1467.9	1501.2	1506.3
25°	3675.3	3558.4	3067.1	2291.1	1457.8	1307.6	1320.6	1343.9	1361.0	1382.1	1385.1
27.5°	3782.4	3590.5	2924.7	1830.0	1265.2	1224.7	1234.9	1243.0	1240.9	1249.1	1251.0
30°	3910.4	3628.0	2729.9	1430.6	1185.5	1154.1	1135.9	1128.9	1128.9	1142.0	1147.0
32.5°	4081.9	3683.4	2450.5	1225.7	1147.0	1103.7	1045.2	1018.9	1029.1	1073.5	1083.5
35°	4270.6	3743.0	2072.2	1156.2	1139.1	1080.5	989.8	941.2	942.3	983.6	996.8
37.5°	4476.4	3818.6	1657.6	1143.1	1157.1	1081.5	960.5	893.9	866.7	866.7	871.6
40°	4739.6	3896.3	1341.8	1152.2	1195.6	1093.6	945.3	856.5	779.9	781.9	785.8
42.5°	5082.7	3962.9	1172.3	1171.3	1241.9	1109.8	944.3	807.0	740.6	785.8	827.2
45°	5464.1	3996.2	1097.6	1188.5	1279.2	1119.8	928.2	799.0	745.6	880.8	959.4
47.5°	5902.9	3976.9	1056.2	1194.6	1288.3	1119.8	910.1	818.1	780.8	1019.9	1111.8
50°	6384.2	3921.6	1016.0	1182.3	1285.4	1117.9	927.2	837.4	794.0	1044.2	1107.8
52.5°	6950.1	3875.1	973.6	1156.2	1264.2	1106.7	947.4	829.2	752.6	949.4	993.7
55°	7595.9	3888.3	926.2	1118.8	1230.9	1085.5	940.3	797.1	709.2	836.3	863.6
57.5°	8421.2	4044.6	869.6	1071.4	1185.5	1050.3	915.1	781.9	696.1	758.7	774.8
60°	9342.3	4317.0	799.0	1024.0	1128.9	993.7	895.9	788.9	702.1	752.6	760.7
62.5°	10018.2	4475.4	738.4	954.4	1052.3	931.3	871.6	798.1	718.4	773.8	771.9
65°	10201.8	4215.0	662.8	852.5	948.3	865.6	841.4	808.1	725.4	791.0	781.9
66°	9944.5	3934.7	629.5	805.2	895.9	833.4	826.4	807.0	722.3	792.9	777.8
67.5°	9320.0	3359.7	572.0	735.4	812.2	784.8	802.0	798.1	714.3	791.0	769.8
70°	7600.9	2292.1	489.2	612.4	676.0	691.1	755.7	765.7	688.0	755.7	709.2
72.5°	5310.7	1396.2	432.9	475.2	546.8	589.2	692.1	721.3	652.8	659.9	615.3
75°	2566.5	741.6	392.5	368.2	424.8	492.4	615.3	660.9	597.3	551.9	535.7
77.5°	800.0	452.9	332.9	296.6	332.9	397.5	514.5	579.0	531.6	462.1	456.0
80°	429.7	332.9	256.2	238.1	263.4	311.7	404.5	483.3	457.0	414.7	370.2
82.5°	283.4	216.0	189.6	184.6	200.9	238.1	300.7	400.6	400.6	355.1	258.3
85°	146.2	132.2	130.2	130.2	140.2	158.5	204.9	308.7	328.9	187.7	155.3
87.5°	72.7	75.6	70.6	73.7	78.7	77.7	97.8	155.3	185.6	114.1	94.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)